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1. AF131-069: AFSCN Mission Planning and scheduling tool

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a means to automatically generate an optimized satellite ground resource utilization schedule capable of flexibly fusing electronically-generated routine and real-time priority access requests. DESCRIPTION: The Air Force Satellite Control Network (AFSCN) is a global network that supports 170+ Earth-orbiting satellites with 16 ground-based antennas of different sizes. The AF ...

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2. AF131-070: High Compression of Infrared (IR) Data

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop an 8x compression algorithm for space infrared data. DESCRIPTION: While Infrared (IR) space surveillance data is typically massive, it must reach Warfighters in the field via a very narrow (56k) communication channel. By implementing 8x data compression algorithms it is anticipated that a larger Warfighter audience can be reached. Additionally, more data could be delivere ...

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3. AF131-071: Space-based, Low-weight, Low-volume MWIR and SWIR

Interferometer IR Sensor

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a low weight and low volume hosted infrared sensor (including telescope and solar baffle) based on interferometer principles. DESCRIPTION: Space Based Infrared (IR) payloads have been proven exceptionally useful in applications such as missile warning, missile defense, technical intelligence, and battlespace awareness; however, they tend to be very large and heavy. In order ...

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4. AF131-072: Game-Theory Enabled Radio Spectrum Management and Waveform Adaptation for Advanced Wideband Satellite Communications

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Advanced game-theoretical frameworks and approaches for spectrum sensing and management in wideband satellite communications systems; Active countermeasures for adaptive RF interference and adversarial jamming. DESCRIPTION: Satellite communications systems and hybrid space-terrestrial systems are essential components for improved warfighting capabilities and enhanced defensive cont ...

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5. AF131-073: Radiation Hardened Low Power Variable Bandwidth/Resolution Sigma Delta Converters

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Identify concepts and architectures for radiation hardened sigma delta ADCs (analog to digital converters) and DACs (digital to analog converters) for application in satellite control systems. DESCRIPTION: Satellite systems rely on numerous servo systems to control antennas, thrusters, gyros, and many other mechanical functions. Critical elements in many of these systems are high r ...

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6. AF131-074: Ultra-efficient Thermoelectric Cooling Module for Satellite Thermal Management

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop an ultra efficient thermo electric cooling module (TECM) to manage satellite payload waste heat and/or convert waste heat into electricity. DESCRIPTION: Recent DARPA sponsored research points to the potential for a revolutionary advance in solid state cooling efficiency due in part to developments in thin-film cooling devices, which have been shown to exhibit a two to three ...

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7. AF131-075: Hosted Payload Support Technologies

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop technologies to support the effective use of hosted payloads on military and/or commercial satellite systems for DoD applications. DESCRIPTION: There is an increased interest in the so-called"hosted payload", which refers to the ability to add a secondary payload(s) opportunistically to a spacecraft having an otherwise specific, dedicated primary purpose. Hosted payloads a ...

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8. AF131-076: Improved Estimation Approaches for High-Accuracy Satellite Detection, Tracking, Identification and Characterization

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop improved algorithms capable of fusing and exploiting existing and/or planned space surveillance data sources to improve ability to detect, track, identify, and characterize man-made space objects. DESCRIPTION: Detecting, tracking, identifying, characterizing, and cataloguing of space objects is a difficult Air Force mission that involves maintaining a catalog of over 20K+ o ...

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9. AF131-077: High Performance Separable Thermal Mechanical Interface for Electronics

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a flight-qualifiable, high performance Separable Thermal Mechanical Interface (STMI) intended for applications requiring high heat flux out of the edges of planar structure. DESCRIPTION: Digital signal processing remains at the forefront in determining future needs for higher capability spacecraft payloads. Currently, the available level of electrical performance far excee ...

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10. AF131-078: Assured Space Sensor Operation in Harsh Electromagnetic/RF Environment

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop an electromagnetically-tailored material for assured sensor operation on SATCOM and/or space-based ISR systems against various electromagnetic environments. DESCRIPTION: Satellite communications (SATCOM) and space-based Intelligence,

Surveillance, and Reconnaissance (ISR) systems in Low-Earth Orbit (LEO) are susceptible to a challenging mixture of electromagnetic (EM) envir ...

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